Event

MPTS IJET NFM 4101 – NFM 4102 T-45

Mission

NIGHT FAMILIARIZATION

1.5 HOURS/X

ORM

NFM 4101-02

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

NFM 4101-02

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

NFM 4101-02

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **NONE**

- **PREREQUISITES:**
  - **NFM 3103**

- **DISCUSS ITEMS:**

  NFM 4101 – 4102
  - **NATOPS/SOP/EP QOD**

SYLLABUS NOTES

NFM 4101-02

A. FLY THESE EVENTS FROM THE FRONT COCKPIT

B. EVENTS SHALL TAKE OFF NO EARLIER THAN 30 MINUTES AFTER OFFICIAL SUNSET.

C. STUDENT MUST PERFORM ONE NIGHT BREAK AT THE FIELD IN BLOCK.

D. A MINIMUM OF 12 NIGHT FIELD CARRIER LANDINGS ARE REQUIRED IN BLOCK.

E. NFM 4102 – JACKET REVIEW REQUIRED.

ADMIN (CARD)

NFM 4101-02

- **A/C - ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN/NIGHT ROUTE SURVEY**

ADMIN

NFM 4101-02

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

CONDUCT

NFM 4101-02

- **TIMS RESUME REVIEW**

- **PRACTICE:**
  - **CHECKLISTS/COMM/GROUND OPS**
  - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
  - **TAKEOFF**
  - **DEPARTURE**
  - **COURSE RULES**
  - **VISUAL NAVIGATION**
  - **DEAD RECKONING**
  - **DESCENT/FIELD ENTRY**

CONDUCT

NFM 4101-02

- **PRACTICE CONTINUED:**
  - **VFR LANDING PATTERN**
  - **FIELD CARRIER LANDING**
  - **NF TOUCH-AND-GO**
  - **FF ROLL-AND-GO**
  - **CROSSWIND LANDINGS**
  - **WAVEOFF**
  - **FULL-STOP LANDING**

BLOCK MIF

NFM 4101-02

CTS REF	MANEUVER	NFM4102
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3+
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	3+
8	Flight Admin	4+
10	Takeoff	3+
11	Departure	3+
8	Course Rules	4+
14	Visual Navigation	4+
14	Dead Reckoning	4+
13	Descent/Field Entry	4+
22	VFR Landing Pattern	3+
23	Field Carrier Landing	3+
23	NF Touch-and-Go	3+
23	FF Roll-and-Go	3+
23	Crosswind Landings	3
24	Waveoff	4+
23	Full-Stop Landing	4+

Emergencies

NFM 4101-02

- **AIRCRAFT FALLOUT**
- **CLEAR ENGINE PROCEDURE**
- **ABORTED TAKEOFF**
- **RWY DEP / LOSS OF DIRECTIONAL CONTROL**
- **SYSTEM FAILURES/ EPs / CRM**
- **BIRD STRIKE/ MIDAIR**
- **RADIO/ ICS FAILURE**
- **LOSS OF NAVAIDS / LOST PLANE**
- **INADVERTENT IMC / LOST SIGHT / LCLS**
- **DISORIENTATION / VERTIGO**
- **HYPOXIA**
- **EJECTION (HIGH / LOW / GROUND)**
- **SAR / ON SCENE COMMANDER**
- **DIVERT(S) / BINGO FUEL TO DIVERT**

STANDARD DEBRIEFING FORMAT

NFM 4101-02

- THE FLIGHT LEAD OR PILOT-IN-COMMAND IS RESPONSIBLE FOR ENSURING ALL FLIGHT OR CREWMEMBERS ARE THOUROUGHLY DEBRIEFED ON THE CONDUCT OF THE MISSION UTILIZING THE "S-P-B-E-MS-LL" FORMAT OUTLINED BELOW.

I. SAFETY
II. PLANNING
III. BRIEF
IV. EXECUTION
V. MISSION SUCCESS
VI. LESSONS LEARNED